The Road to the Objective Force

Tactical Wheeled Vehicles Conference
January 29, 2002

LTG John S. Caldwell, Jr.

Military Deputy to the Assistant Secretary of the Army (Acquisition, Logistics and Technology) and Director, Army Acquisition Corps

Leadership Priorities have not Changed

People

"To build our future force, the Armed Services must continue to attract America's best people, with good pay and good living conditions. Our military culture must reward new thinking, innovation, and experimentation."

Readiness

"When I committed U.S. forces to this battle, I had every confidence that they would be up to the task. And they have proven me right."

Transformation

"The need for military transformation was clear...before September the 11th. What's different today is our sense of urgency -- the need to build this future force while fighting a present war. It's like overhauling an engine while you're going at 80 miles an hour. Yet we have no other choice...the challenge of military transformation...is now the military and moral necessity of our time. Our military has a new and essential mission. For states that support terror, it's not enough that the consequences be costly – they must be devastating."

President George W. Bush December 11, 2001

How Can We Create An Objective Force?

1963 19 Years To Develop One New Combat Vehicle 1982





Do What You Gotta Do!

(Garth Brooks)

Sometimes you've got to take the heat
If you're gonna walk down on the mean street
Take the heat and you see it through
'Cause sometimes it comes down to
Do what you gotta do

Sometimes it goes right down to the wire And you might have to walk through the fire Walk on, boy, all the way through 'Cause sometimes it just comes down to Do what you gotta do

(Chorus)

Well there's people that'll tell you its just no use And there's people that'll tell you that you're gonna lose People that'll tell you anything your going to listen to Do what you gotta do

Do What You Gotta Do! (cont)

(Garth Brooks)

Someday they're going to call your name
They'll come looking for someone to blame
What's your name, boy, hey you just tell them true
'Cause they can't take the truth from you
So do what you gotta do

(Chorus)

Well, they'll call you a hero or a traitor
But you'll find out that, sooner or later,
Nobody in this world is going to do it for you
Do what you gotta do

There ain't nobody in this world That's gonna do it for you Do what you gotta do

Modeling and Simulation Are Essential to Field the Objective Force In This Decade



FCS Advanced Collaborative Environment (ACE)

What is the ACE?

- A collaborative, virtual simulation based environment that provides all stakeholders, in Government and Industry, access to shared data, tools, models, and simulations.
 - The purpose of ACE is to provide for collaboration, in and between data and people, to support FCS Program

 Management decisions.

The Synergy of Collaboration





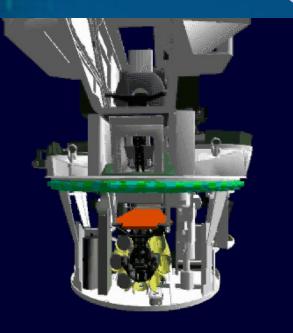
- •Shortens the **Cycle Time**
 - Lower Risk... **Fewer Hidden** Issues
 - Make Better **Quality Decisions**
 - Early Consensus
 - Saves Money
- We only have until 2008
- Everything has to work
- Everything has to fit

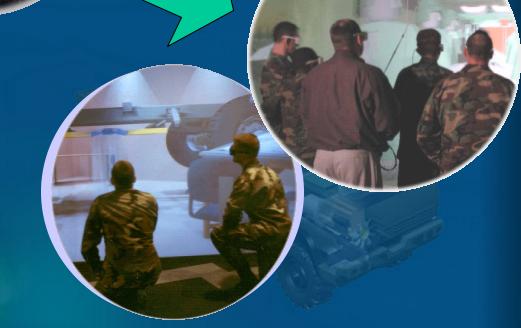
What the Army is Doing Interim Armored Vehicle Variants

Virtual System Prototypes and Collaborative Evaluations with Industry

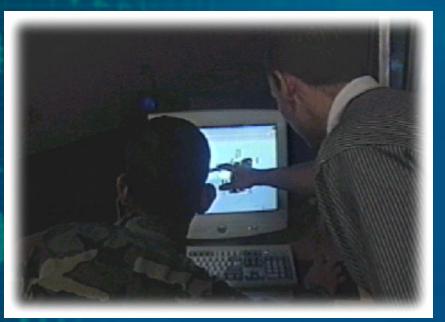
From the Desktop

To 3D Immersive Design Reviews





Using ACE to Evaluate FCS Variants









Future Tactical Truck System Virtual Prototype Approach

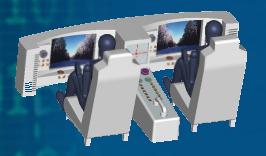
C4I Capabilities Modeled

- Data Logging System
- Combat Satellite Link
- GPS & Map Display
- Interactive Technical Manuals (ITEMS)

Immersive Design Reviews

- Crew Station
- Mission Equipment
- Load Handling







Performance Analyses



Survivability

- Reduce Signature
- Situational Awareness



Mobility



CHPs



Challenges for Our Team

- We are at war have a sense of urgency in everything that you do.
- The pace of Army Transformation will accelerate – the Technology is ready, are YOU?
- HQDA and Acquisition Corps Reorganization is happening – don't waste energy worrying about this.
- We need innovators to field FCS this decade –
 we need YOU to get there.

